

Amendment to the Claims:

1. (Cancelled)

2. (Currently Amended) A magnetic resonance imaging apparatus as claimed in claim [[1]] 3, in which the a length of ~~the~~ each lead segment is in the range of from $\lambda/4$ to $\lambda/8$.

3. (Currently Amended) A magnetic resonance imaging apparatus ~~as claimed in claim 1,~~ comprising:

an accessory device;

a connection lead which is configured to extend through an
5 examination zone of a magnetic resonance imaging system during a magnetic
resonance examination procedure in which RF fields are applied in the examination
zone, the connection lead including:

a multiplicity of lead segments, each lead segment
10 including two wires,

in which the inductive coupling element is a plurality of
transformers, a plurality of the transformers including a first winding
connected across the wires of one of the lead segments and a second
winding connected across the wires of an adjacent lead segment.

4. (Currently Amended) A magnetic resonance imaging apparatus ~~as claimed in claim 3,~~ in which is provided with at least one electrical
accessory device for use during the examination of an object, as well as with a
connection lead which is to be guided through an examination zone of the magnetic
5 resonance imaging apparatus, which zone can be exposed to an RF field, and which
lead is intended to connect the accessory device to a connection unit, at least one lead
segment, having a length which is limited by at least one inductive coupling element
and is unequal to $n*\lambda/2$, being connected in the connection lead, where λ denotes the
RF wavelength and $n = 1, 2, 3, \dots$, the inductive coupling element being a

- 10 transformer, the transformer ~~[[is]]~~ being formed by a toroid as well as a primary and secondary winding wound thereon.

5. (Currently Amended) A magnetic resonance imaging apparatus as claimed in claim 1, comprising:

a magnetic resonance accessory including at least one RF coil;

- 5 a connection lead connected with the accessory and adapted to extend through an examination zone during a magnetic resonance imaging process, the connection lead including:

a plurality of conductive, lead segment loops arranged end to end, each lead segment loop having a length unequal to $n\lambda/2$, where λ connotes RF wavelength of RF signals applied in the examination zone during the imaging process and n is an integer,

- 10 in which the inductive coupling element is a plurality of inductive coupling conductor loops, each inductive coupling loop being arranged adjacent a pair of adjacent lead segment loops to inductively couple the lead segment loops.

6. (Currently Amended) A magnetic resonance imaging apparatus as claimed in claim ~~[[1]]~~ 3, in which the connection lead is a two-wire lead or a coaxial lead.

7. (Currently Amended) A magnetic resonance imaging apparatus as claimed in claim ~~[[1]]~~ 3, in which ~~the inductive coupling element~~ each transformer is bridged by ohmic resistors in order to transfer direct voltage signals via the connection lead.

8. (Currently Amended) A magnetic resonance imaging apparatus as claimed in claim ~~[[1]]~~ 3, ~~in which the inductive coupling element is at least one capacitive element~~ connected with each transformer so as to form a resonant circuit in conjunction with at least one capacitive element, the resonance condition of

- 5 said resonant circuit being satisfied for the frequency of a signal to be transferred via the connection lead.

9. (Currently Amended) A magnetic resonance imaging apparatus as claimed in claim ~~[[1]]~~ 4, in which the accessory device is an RF body coil or a catheter with a transmission and/or receiving unit.

10. (Currently Amended) A magnetic resonance imaging apparatus as claimed in claim 3, wherein the accessory device includes a body coil which ~~forms an accessory device~~ for use during the magnetic resonance examination of an object, ~~by means of a magnetic resonance imaging apparatus, provided with a~~
5 the connection lead which is being arranged so as to extend through ~~[[an]] the~~ examination zone ~~of the magnetic resonance imaging apparatus, which zone can and~~ be exposed to ~~[[an]] the~~ RF fields ~~and to connect the body coil to a connection unit; at least one of the lead segments[[,]] having a length which is limited by at least one inductive coupling element and is unequal to $n\lambda/2$, being connected in the connection~~
10 ~~lead~~, where λ denotes the RF wavelength and $n = 1, 2, 3, \dots$

11. (Currently Amended) A magnetic resonance imaging apparatus as claimed in claim 3 wherein the accessory includes a catheter with a transmission and/or receiving unit which forms an accessory device for use during the examination procedure of an object ~~by means of a magnetic resonance imaging~~
5 ~~apparatus in the examination zone, provided with a~~ the connection lead which is being arranged so as to extend through ~~[[an]] the~~ examination zone ~~of the magnetic resonance imaging apparatus, which zone can be exposed to an RF field, and to connect the transmission and/or receiving unit to a connection unit, at least one of the lead segments, having a length which is limited by at least one inductive coupling element and is unequal to $n\lambda/2$, being connected in the connection lead~~, where λ
10 denotes the ~~[[RF]] wavelength of the applied RF fields~~ and $n = 1, 2, 3, \dots$

12. (New) A magnetic resonance imaging apparatus as claimed in claim 5, wherein the accessory includes an RF coil or a catheter with a transmission and/or receive unit.

13. (New) A magnetic resonance imaging apparatus as claimed in claim 4, wherein each toroidal transformer is bridged by ohmic resistors.

14. (New) A magnetic resonance imaging apparatus as claimed in claim 5, wherein each lead segment loop has a length in a range of $\lambda/4$ to $\lambda/8$.